



## ABSTRACT

A rotatably alternating air or water cooled two-stroke internal combustion engine comprising a cylindrical casing, and a rotor comprising two radially extending vanes affixed to a shaft rotatably mounted within the casing upon two end plates affixed to the casing. Two longitudinally extending walls unitary or affixed to the casing. Sealing strips provided between said walls and the shaft and between the vanes, the casing and the end plates respectively. The casing and, or the end plates equipped with plurality of ports which communicate with interior chambers formed between the vanes and the walls, allowing for intake of combustible air-fuel mixture and exhaust thereafter. Ignition means delivering a spark at the end of each working cycle. An extendable connecting rod assembly converting the oscillating bi-directional rotary motion of the output shaft into a continuous unidirectional motion of the main shaft.